

MEMBRANE MODULE

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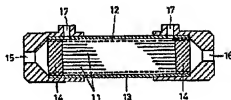
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Abstract of JP11333265

PROBLEM TO BE SOLVED: To prevent a network matter from undergoing creep deformation and an outer surface of a membrane from being damaged by the network matter by employing the network matter having a string woven in a cylindrical shape, which string is made from a thermoplastic resin having a thermal deformation temperature not less than a specified value, in a membrane module prepared by covering a plurality of hollow fiber membranes with the network matter and housing them in a case. **SOLUTION:** A plurality of hollow fiber membranes 11 are parallelly bundled and its outer circumference is covered with a network matter 12 and they are housed within a cylindrical case 13 and both ends thereof are filled with a heat resistant cast resin 14 so as to constitute a membrane module. In this case, the network matter 12 is formed by weaving strings of a thermoplastic resin having thermal deformation temperature of 150 deg.C or higher, e.g. polysulfone or the like in a cylindrical shape so as to prevent creep deformation and is partially fused so as to enhance strength. The cross section of the string is formed in a round shape so that an outer surface of a membrane is prevented from being damaged by the network matter 12. A raw solution is allowed to flow through an inlet 15 and permeate through the hollow fiber membrane 11 and then extracted from an outlet 17 and a concentrated solution is extracted from an outlet 16.



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